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(54) ELEMENT FAULT DETECTING DEVICE OF AC
POWER CONTROLLER(71) Applicant: TOSHIBA CORP
(72) Inventor: HATANO YUKIHIKO

the comparator 53 decides it by an AND circuit 55 by outputting a signal of a high level and outputs a fault detecting signal S_W from an OR circuit 70.

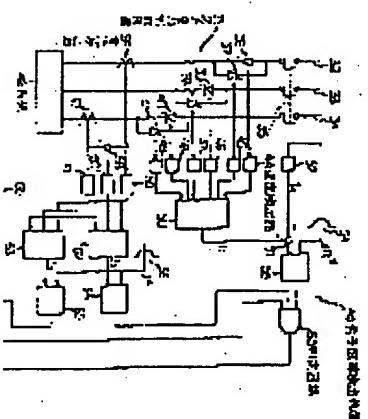
(57) Abstract:

PURPOSE: To quickly execute a protecting operation and to detect even a short circuit of a single phase by deciding it to be a fault, when a temperature of a case of a switching element becomes lower than a prescribed temperature rise.

CONSTITUTION: Temperatures of cases of thyristors

36 - 41 are detected by temperature detectors 44 - 49, respectively, and that of the minimum value among them is selected by a temperature minimum value selecting circuit 50 and outputted as a temperature minimum value signal T_C . This signal T_C is compared with an ambient temperature value signal T_A by a sub-

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